Patent Assignment Abstract of Title

Total Assignments: 1

Applicati n #: 10011029 Filing Dt: 11/13/2001 Patent #: NONE **Issue Dt:**

PCT #: NONE Publicati n #: <u>US20030093562</u> Pub Dt: 05/15/2003

Inventor: Chandrashekar R. Padala

Title: Efficient peer to peer discovery

Assignment: 1

Recorded: Mailed: Pages: Received: Reel/Frame: 012373/0433 12/20/2001

11/13/2001 02/08/2002 Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: PADALA, CHANDRASHEKAR R.

Exec Dt: 11/12/2001

Assignee: INTEL CORPORATION

2200 MISSION COLLEGE BOULEVARD SANTA CLARA, CALIFORNIA 95052

Correspondent: BLAKELY, SOKOLOFF ET AL.

12400 WILSHIRE BOULEVARD

7TH FLOOR

LOS ANGELES, CA 90025

Search Results as of: 1/14/2005 8:51:46 A.M.

If you have any comments or questions concerning the data displayed, contact OPR / Assignments at 703-308-9723 Web interface last modified: Oct. 5, 2002

Subscribe (Full Service) Register (Limited Service, Free) Login Search: © The ACM Digital Library O The Guide domain name service peer-to-peer	CH
Feedback Report a problem Satisfaction survey	
Terms used domain name service peer to peer Found 33,899 of 148,7	86
Sort results by Display results Expanded form Try an Advanced Search Try this search in The ACM Guide Open results in a new window	
Results 1 - 20 of 200 Result page: 1 <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u> <u>next</u> Best 200 shown Relevance scale	
1 The design and implementation of a next generation name service for the internet Venugopalan Ramasubramanian, Emin Gün Sirer August 2004 ACM SIGCOMM Computer Communication Review, Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 34 Issue 4	

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(472.93 KB)

Name services are critical for mapping logical resource names to physical resources in largescale distributed systems. The Domain Name System (DNS) used on the Internet, however, is slow, vulnerable to denial of service attacks, and does not support fast updates. These problems stem fundamentally from the structure of the legacy DNS. This paper describes the design and implementation of the Cooperative Domain Name System (CoDoNS), a novel name service, which provides high lookup performance thro ...

Keywords: DNS, peer to peer, proactive caching

² DNS: Availability, usage, and deployment characteristics of the domain name system Jeffrey Pang, James Hendricks, Aditya Akella, Roberto De Prisco, Bruce Maggs, Srinivasan Seshan



October 2004 Proceedings of the 4th ACM SIGCOMM conference on Internet measurement

Full text available: pdf(856.34 KB) Additional Information: full citation, abstract, references, index terms

The Domain Name System (DNS) is a critical part of the Internet's infrastructure, and is one of the few examples of a robust, highly-scalable, and operational distributed system. Although a few studies have been devoted to characterizing its properties, such as its workload and the stability of the top-level servers, many key components of DNS have not yet been examined. Based on large-scale measurements taken fromservers in a large content distribution network, we present a detailed study of ...

Keywords: DNS, availability, federated

3 Posters: A bottom-up combinable name service for Peer-to-Peer network Yuichi Ueno November 2002 C mpani n f the 17th annual ACM SIGPLAN c nference n Object-



267

riented programming, systems, languages, and applications

Full text available: 🔂 pdf(219.26 KB) Additional Information: full citation, abstract, references

We need various higher level services for using Peer-to-Peer(P2P) network effectively and for building useful applications. We introduce a new distributed name service which enables bottom-up combination of local name spaces by complete decentralized control. Our name service provides much benefit for P2P networking and groupware applications.

Keywords: Java, P2P, groupware, name service, peer-to-peer

4 Chord: A scalable peer-to-peer lookup service for internet applications Ion Stoica, Robert Morris, David Karger, M. Frans Kaashoek, Hari Balakrishnan August 2001 ACM SIGCOMM Computer Communication Review, Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 31 Issue 4

Full text available: pdf(205.73 KB) Additional Information: full citation, references, citings, index terms

5 LegionFS: a secure and scalable file system supporting cross-domain highperformance applications

Brian S. White, Michael Walker, Marty Humphrey, Andrew S. Grimshaw November 2001 Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(499.88 KB) terms

Realizing that current file systems can not cope with the diverse requirements of wide-area collaborations, researchers have developed data access facilities to meet their needs. Recent work has focused on comprehensive data access architectures. In order to fulfill the evolving requirements in this environment, we suggest a more fully-integrated architecture built upon the fundamental tenets of naming, security, scalability, extensibility, and adaptability. These form the underpinning of the Le ...

6 PocketLens: Toward a personal recommender system

Bradley N. Miller, Joseph A. Konstan, John Riedl

July 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 3

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

Recommender systems using collaborative filtering are a popular technique for reducing information overload and finding products to purchase. One limitation of current recommenders is that they are not portable. They can only run on large computers connected to the Internet. A second limitation is that they require the user to trust the owner of the recommender with personal preference data. Personal recommenders hold the promise of delivering high quality recommendations on palmtop computers, e ...

Keywords: Collaborative Filtering, Peer-to-Peer Networking, Privacy, Recommender **Systems**

7 Locating application data across service discovery domains

Paul Castro, Benjamin Greenstein, Richard Muntz, Parviz Kermani, Chatschik Bisdikian, Maria Papadopouli

July 2001 Pr ceedings f the 7th annual internati nal c nference on Mobile c mputing and netw rking

Additional Information:

Full text available: pdf(4.38 MB)

full citation, abstract, references, citings, index

The bulk of proposed pervasive computing devices such as PDAs and cellular telephones operate as thin clients within a larger infrastructure. To access services within their local environment, these devices participate in a service discovery protocol which involves a master directory that registers all services available in the local environment. These directories typically are isolated from each other. Devices that move across service discovery domains have no access to information outside t ...

8 Consistency and replication: Consistency mechanisms for a distributed lookup service supporting mobile applications



Christoph Lindemann, Oliver P. Waldhorst

September 2003 Proceedings of the 3rd ACM international workshop on Data engineering for wireless and mobile access

Full text available: pdf(425.01 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a general-purpose distributed lookup service, denoted Passive Distributed Indexing (PDI). PDI stores entries in form of (key, value) pairs in index caches located in each mobile device. Index caches are filled by epidemic dissemination of popular index entries. By exploiting node mobility, PDI can resolve most queries locally without sending messages outside the radio coverage of the inquiring node. Thus, PDI reduces network traffic for the resolution of keys to values. For k ...

Keywords: ad-hoc networked databases, consistency maintenance in weakly connected environments, data caching, epidemic algorithms for data dissemination

⁹ A layered naming architecture for the internet

Hari Balakrishnan, Karthik Lakshminarayanan, Sylvia Ratnasamy, Scott Shenker, Ion Stoica, Michael Walfish

August 2004 ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 34 Issue 4

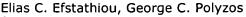
Full text available: pdf(110.95 KB)

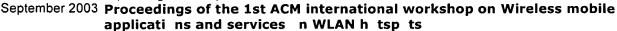
Additional Information: full citation, abstract, references, citings, index terms

Currently the Internet has only one level of name resolution, DNS, which converts user-level domain names into IP addresses. In this paper we borrow liberally from the literature to argue that there should be three levels of name resolution: from user-level descriptors to service identifiers; from service identifiers to endpoint identifiers; and from endpoint identifiers to IP addresses. These additional levels of naming and resolution (1) allow services and data to be first class Internet objec ...

Keywords: distributed hash tables, global identifiers, internet architecture, middleboxes, name resolution, naming

10 Vision & challenges: A peer-to-peer approach to wireless LAN roaming





Full text available: pdf(279.70 KB) Additional Information: full citation, abstract, references, index terms

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Networks. A P2P Wireless Network Confederation (P2PWNC) is a community of administrative domains that offer wireless Internet access to each other's registered users. The ubiquitous Internet access that the roaming users of these domains could enjoy

compensates for their home domain's cost of providing access to visitors. Existing roaming schemes utilize central authorities or bilateral contracts to control acc ...

Keyw rds: P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

11 Special issue on Mobile Data Management: Exploiting epidemic data dissemination for consistent lookup operations in mobile applications



Christoph Lindemann, Oliver P. Waldhorst

July 2004 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 8 Issue 3

Full text available: pdf(391.34 KB) Additional Information: full citation, abstract, references

This paper presents a general-purpose distributed lookup service, denoted Passive Distributed Indexing (PDI). PDI stores entries in form of (key, value) pairs in index caches located at mobile devices. Index caches are filled by epidemic dissemination of popular index entries. By exploiting node mobility, PDI can resolve most queries locally without sending messages outside the radio coverage of the inquiring node. For keeping index caches coherent, configurable value timeouts implementing im ...

12 Storage management and caching in PAST, a large-scale, persistent peer-to-peer storage utility

Antony Rowstron, Peter Druschel

October 2001 ACM SIGOPS Operating Systems Review, Proceedings of the eighteenth ACM symposium on Operating systems principles, Volume 35 Issue 5

Full text available: pdf(1.48 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents and evaluates the storage management and caching in PAST, a largescale peer-to-peer persistent storage utility. PAST is based on a self-organizing, Internetbased overlay network of storage nodes that cooperatively route file queries, store multiple replicas of files, and cache additional copies of popular files. In the PAST system, storage nodes and files are each assigned uniformly distributed identifiers, and replicas of a file are stored at nodes whose identifier matches ...

13 Session 6: Viceroy: a scalable and dynamic emulation of the butterfly

Dahlia Malkhi, Moni Naor, David Ratajczak

July 2002 Proceedings of the twenty-first annual symposium on Principles of distributed computing

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, citings

We propose a family of constant-degree routing networks of logarithmic diameter, with the additional property that the addition or removal of a node to the network requires no global coordination, only a constant number of linkage changes in expectation, and a logarithmic number with high probability. Our randomized construction improves upon existing solutions, such as balanced search trees, by ensuring that the congestion of the network is always within a logarithmic factor of the optimum with ...

14 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 ACM Transactions n C mputer Systems (TOCS), Volume 21 Issue 2

Full text available: pdf(341.62 KB) Additional Information: full citation, abstract, references, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called



Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys

Keyw rds: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

15 Internet indirection infrastructure

Ion Stoica, Daniel Adkins, Shelley Zhuang, Scott Shenker, Sonesh Surana April 2004 IEEE/ACM Transactions on Networking (TON), Volume 12 Issue 2

Full text available: pdf(583.64 KB) Additional Information: full citation, abstract, references, index terms

Attempts to generalize the Internet's point-to-point communication abstraction to provide services like multicast, anycast, and mobility have faced challenging technical problems and deployment barriers. To ease the deployment of such services, this paper proposes a general, overlay-based Internet Indirection Infrastructure (i3) that offers a rendezvousbased communication abstraction. Instead of explicitly sending a packet to a destination, each packet is associated with an identifier; t ...

Keywords: anycast, indirection, mobility, multicast, network infrastructure, service composition

¹⁶ The design and implementation of an intentional naming system

William Adjie-Winoto, Elliot Schwartz, Hari Balakrishnan, Jeremy Lilley December 1999 ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM symposium on Operating systems principles, Volume 33 Issue 5

Full text available: pdf(1.77 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents the design and implementation of the Intentional Naming System (INS), a resource discovery and service location system for dynamic and mobile networks of devices and computers. Such environments require a naming system that is (i) expressive, to describe and make requests based on specific properties of services, (ii) responsive, to track changes due to mobility and performance, (iii) robust, to handle failures, and (iv) easily configurable. INS uses a simple language based o ...

17 Internet indirection infrastructure

Ion Stoica, Daniel Adkins, Shelley Zhuang, Scott Shenker, Sonesh Surana August 2002 ACM SIGCOMM Computer Communication Review, Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 32 Issue 4

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(303.69 KB) terms

Attempts to generalize the Internet's point-to-point communication abstraction to provide services like multicast, anycast, and mobility have faced challenging technical problems and deployment barriers. To ease the deployment of such services, this paper proposes an overlay-based Internet Indirection Infrastructure (13) that offers a rendezvous-based communication abstraction. Instead of explicitly sending a packet to a destination, each packet is associated with an identifier; this identifier ...

Keyw rds: abstraction, architecture, indirection, internet, scalable

18 A security architecture for computational grids

Ian Foster, Carl Kesselman, Gene Tsudik, Steven Tuecke

November 1998 Pr ceedings f the 5th ACM conference n C mputer and c mmunicati ns security

Full text available: pdf(1.23 MB)

Additional Information: full citation, references, citings, index terms

19 Ubiquitous computing (UC): Fluid: supporting a transportable and adaptive web service

I Made (Dennis) Pratistha, Arkady Zaslavsky

March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Full text available: pdf(248.22 KB) Additional Information: full citation, abstract, references

Web services introduce new capabilities in the distributed application development model. This model is built on widely used internet standards, thereby presenting interoperability among different platforms. However, there are still several restrictions within the current standards, for instance, lack of the capability to react swiftly given poor-performance or requirements of maintenance on the host that is executing the web service. This paper proposes a nomadic and resource-aware web service ...

Keywords: Web service, code mobility, context aware

²⁰ An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz March 2002 Wireless Networks, Volume 8 Issue 2/3

Full text available: pdf(365.68 KB) Additional Information: full citation, abstract, references, index terms

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

Results 1 - 20 of 200

Result page: 1 2 3 4 5 6 7 8 9 10 next

The ACM Portal is published by the Association for Computing Machinery. Copyright @ 2005 ACM, Inc. Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player Real Player



Subscribe (Full Service) Register (Limited Service, Free) Login

Search: • The ACM Digital Library O The Guide

dns peer-to-peer

SEARCH

THE ACK DICHTAL LIBRARY

Feedback Report a problem Satisfaction survey

Terms used dns peer to peer

Found 1,536 of 148,786

Sort results by Display

results

relevance

expanded form

Save results to a Binder Search Tips

Open results in a new

Try an Advanced Search Try this search in The ACM Guide

next

window

-

Results 1 - 20 of 200

Result page: 1 2 3 4 5 6 7 8 9 10

Relevance scale

Best 200 shown

DNS: Availability, usage, and deployment characteristics of the domain name system Jeffrey Pang, James Hendricks, Aditya Akella, Roberto De Prisco, Bruce Maggs, Srinivasan

October 2004 Proceedings of the 4th ACM SIGCOMM conference on Internet measurement

Full text available: pdf(856.34 KB) Additional Information: full citation, abstract, references, index terms

The Domain Name System (DNS) is a critical part of the Internet's infrastructure, and is one of the few examples of a robust, highly-scalable, and operational distributed system. Although a few studies have been devoted to characterizing its properties, such as its workload and the stability of the top-level servers, many key components of DNS have not yet been examined. Based on large-scale measurements taken fromservers in a large content distribution network, we present a detailed study of ...

Keywords: DNS, availability, federated

2 Chord: a scalable peer-to-peer lookup protocol for internet applications Ion Stoica, Robert Morris, David Liben-Nowell, David R. Karger, M. Frans Kaashoek, Frank Dabek, Hari Balakrishnan

February 2003 IEEE/ACM Transactions on Networking (TON), Volume 11 Issue 1

Full text available: pdf(690.54 KB)

Additional Information: full citation, abstract, references, citings, index terms

A fundamental problem that confronts peer-to-peer applications is the efficient location of the node that stores a desired data item. This paper presents Chord, a distributed lookup protocol that addresses this problem. Chord provides support for just one operation: given a key, it maps the key onto a node. Data location can be easily implemented on top of Chord by associating a key with each data item, and storing the key/data pair at the node to which the key maps. Chord adapts efficien ...

Keywords: distributed scalable algorithms, lookup protocols, peer-to-peer networks

3 The design and implementation of a next generation name service for the internet Venugopalan Ramasubramanian, Emin Gün Sirer

August 2004 ACM SIGCOMM Computer Communicati n Review, Pr ceedings f the 2004 c nference n Applicati ns, technol gies, architectures, and

pr t c Is for computer c mmunicati ns, Volume 34 Issue 4

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(472.93 KB) terms

Name services are critical for mapping logical resource names to physical resources in largescale distributed systems. The Domain Name System (DNS) used on the Internet, however, is slow, vulnerable to denial of service attacks, and does not support fast updates. These problems stem fundamentally from the structure of the legacy DNS. This paper describes the design and implementation of the Cooperative Domain Name System (CoDoNS), a novel name service, which provides high lookup performance thro ...

Keywords: DNS, peer to peer, proactive caching

4 Article abstracts with full text online: The liquid architecture: a non-linear peer-to-peer distributed architecture with polymorphic message passing

Coskun Bayrak, Chad Davis

May 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 3

Full text available: pdf(296.94 KB) Additional Information: full citation, abstract, references

In terms of benefiting from the potential to be gained from full distribution, today's most common implementations of distributed systems follow only limited linear versions of distribution such as client-server or n-tier models. Even many "peer to peer" systems still rely on centralized servers to provide the message passing connectivity between the peers. While these systems do provide increased robustness and computational speedup, they fail to realize the full measure of what fully distribut ...

Keywords: P2P, architecture, distributed systems, networking, peer-to-peer, real time systems, software engineering, virtual collaboration

⁵ A scalable distributed information management system

Praveen Yalagandula, Mike Dahlin

August 2004 ACM SIGCOMM Computer Communication Review, Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 34 Issue 4

Full text available: pdf(364.00 KB) Additional Information: full citation, abstract, references, index terms

We present a Scalable Distributed Information Management System (SDIMS) that aggregates information about large-scale networked systems and that can serve as a basic building block for a broad range of large-scale distributed applications by providing detailed views of nearby information and summary views of global information. To serve as a basic building block, a SDIMS should have four properties: scalability to many nodes and attributes, flexibility to accommodate a broad range of appl ...

Keywords: distributed hash tables, information management system, networked system monitoring

⁶ IPNL: A NAT-extended internet architecture

Paul Francis Ramakrishna

August 2001 ACM SIGCOMM Computer Communicati n Review, Proceedings of the 2001 conference n Applicati ns, techn I gies, architectures, and pr t c ls f r c mputer c mmunicati ns, Volume 31 Issue 4

Full text available: pdf(241.65 KB) Additional Information: full citation, references, citings, index terms

7 Incrementally improving lookup latency in distributed hash table systems Hui Zhang, Ashish Goel, Ramesh Govindan



June 2003 ACM SIGMETRICS Performance Evaluation Review, Pr ceedings of the 2003 ACM SIGMETRICS international c nference n Measurement and m deling f computer systems, Volume 31 Issue 1

Full text available: pdf(401.28 KB)

Additional Information: full citation, abstract, references, citings, index terms

Distributed hash table (DHT) systems are an important class of peer-to-peer routing infrastructures. They enable scalable wide-area storage and retrieval of information, and will support the rapid development of a wide variety of Internet-scale applications ranging from naming systems and file systems to application-layer multicast. DHT systems essentially build an overlay network, but a path on the overlay between any two nodes can be significantly different from the unicast path between those ...

Keywords: DHT, latency stretch, peer-to-peer, random sampling

8 Chord: A scalable peer-to-peer lookup service for internet applications Ion Stoica, Robert Morris, David Karger, M. Frans Kaashoek, Hari Balakrishnan August 2001 ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 31 Issue 4

Full text available: pdf(205.73 KB) Additional Information: full citation, references, citings, index terms

PocketLens: Toward a personal recommender system

Bradley N. Miller, Joseph A. Konstan, John Riedl

July 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 3

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

Recommender systems using collaborative filtering are a popular technique for reducing information overload and finding products to purchase. One limitation of current recommenders is that they are not portable. They can only run on large computers connected to the Internet. A second limitation is that they require the user to trust the owner of the recommender with personal preference data. Personal recommenders hold the promise of delivering high quality recommendations on palmtop computers, e ...

Keywords: Collaborative Filtering, Peer-to-Peer Networking, Privacy, Recommender **Systems**

10 SelectCast: a scalable and self-repairing multicast overlay routing facility

Adrian Bozdog, Robbert van Renesse, Dan Dumitriu

October 2003 Proceedings of the 2003 ACM workshop on Survivable and selfregenerative systems: in association with 10th ACM Conference on **Computer and Communications Security**

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references

In this paper we describe SelectCast, a self-repairing multicast overlay routing facility for supporting publish/subscribe applications. Select Cast is a peer-to-peer protocol, and leverages Astrolabe, a secure distributed information management system. SelectCast uses replication to recover quickly from transient failures, as well as Astrolabe's aggregation facilities to recover from long-term failures or adapt to changes in load or QoS requirements. In order to evaluate the scalability and ...

11 A churn-resistant peer-to-peer web caching system

Prakash Linga, Indranil Gupta, Ken Birman

October 2003 Pr ceedings f the 2003 ACM w rkshop n Survivable and selfregenerative systems: in ass ciati n with 10th ACM Conference n Computer and Communications Security

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references

Denial of service attacks on peer-to-peer (p2p) systems can arise from sources otherwise considered non-malicious. We focus on one such commonly prevalent source, called "churn". Churn arises from continued and rapid arrival and failure (or departure) of a large number of participants in the system, and traces from deployments have shown that it can lead to extremely stressful networking conditions. It has the potential to increase host loads and block a large fraction of normal insert and lo ...

12 Network behavior: An analysis of Internet content delivery systems

Stefan Saroiu, Krishna P. Gummadi, Richard J. Dunn, Steven D. Gribble, Henry M. Levy December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Full text available: pdf(2.07 MB)

Additional Information: full citation, abstract, references

In the span of only a few years, the Internet has experienced an astronomical increase in the use of specialized content delivery systems, such as content delivery networks and peer-to-peer file sharing systems. Therefore, an understanding of content delivery on the Internet now requires a detailed understanding of how these systems are used in practice. This paper examines content delivery from the point of view of four content delivery systems: HTTP web traffic, the Akamai content delivery netw ...

¹³ A layered naming architecture for the internet

Hari Balakrishnan, Karthik Lakshminarayanan, Sylvia Ratnasamy, Scott Shenker, Ion Stoica, Michael Walfish

August 2004 ACM SIGCOMM Computer Communication Review, Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 34 Issue 4

Full text available: pdf(110.95 KB)

Additional Information: full citation, abstract, references, citings, index terms

Currently the Internet has only one level of name resolution, DNS, which converts user-level domain names into IP addresses. In this paper we borrow liberally from the literature to argue that there should be three levels of name resolution: from user-level descriptors to service identifiers; from service identifiers to endpoint identifiers; and from endpoint identifiers to IP addresses. These additional levels of naming and resolution (1) allow services and data to be first class Internet objec ...

Keywords: distributed hash tables, global identifiers, internet architecture, middleboxes, name resolution, naming

¹⁴ Distributed hash tables, Part I

Brandon Wiley

October 2003 Linux Journal, Volume 2003 Issue 114

Full text available: html(19.41 KB) Additional Information: full citation, abstract

Learn the fundamental technique behind the next generation of privacy-conscious peer-to-peer systems.

15 Features: Designing Portable Collaborative Networks





May 2003 Queue, Volume 1 Issue 3

Full text available: pdf(547.14 KB) Additional Information: full citation, index terms

16 Session 6: Viceroy: a scalable and dynamic emulation of the butterfly Dahlia Malkhi, Moni Naor, David Ratajczak

July 2002 Proceedings of the twenty-first annual symposium on Principles of distributed computing

Full text available: pdf(1.09 MB)

Additional Information: full citation, abstract, references, citings

We propose a family of constant-degree routing networks of logarithmic diameter, with the additional property that the addition or removal of a node to the network requires no global coordination, only a constant number of linkage changes in expectation, and a logarithmic number with high probability. Our randomized construction improves upon existing solutions, such as balanced search trees, by ensuring that the congestion of the network is always within a logarithmic factor of the optimum with ...

17 Sensor databases: Cache-and-query for wide area sensor databases Amol Deshpande, Suman Nath, Phillip B. Gibbons, Srinivasan Seshan June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Full text available: pdf(230.75 KB)

Additional Information: full citation, abstract, references, citings, index terms

Webcams, microphones, pressure gauges and other sensors provide exciting new opportunities for querying and monitoring the physical world. In this paper we focus on querying wide area sensor databases, containing (XML) data derived from sensors spread over tens to thousands of miles. We present the first scalable system for executing XPATH queries on such databases. The system maintains the logical view of the data as a single XML document, while physically the data is fragmented across a ...

18 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 ACM-Transactions on Computer Systems (TOCS), Volume 21 Issue 2

Full text available: pdf(341.62 KB) Additional Information: full citation, abstract, references, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

19 Dynamic services and analysis: Make it fresh, make it quick: searching a network of personal webservers

Mayank Bawa, Roberto J. Bayardo, Sridhar Rajagopalan, Eugene J. Shekita May 2003 Proceedings of the twelfth internati nal c nference n W rld Wide Web

Full text available: pdf(500.28 KB)

Additional Information: full citation, abstract, references, citings, index terms

Personal webservers have proven to be a popular means of sharing files and peer collaboration. Unfortunately, the transient availability and rapidly evolving content on such hosts render centralized, crawl-based search indices stale and incomplete. To address this problem, we propose YouSearch, a distributed search application for personal webservers operating within a shared context (e.g., a corporate intranet). With YouSearch, search results are always fast, fresh and complete -- properties we ...

Keywords: P2P, decentralized systems, information communities, intranet search, peer-topeer networks, web search

²⁰ Peer to peer networks: Tarzan: a peer-to-peer anonymizing network layer Michael J. Freedman, Robert Morris

November 2002 Proceedings of the 9th ACM conference on Computer and communications security

Full text available: 同 pdf(242.72 KB)

Additional Information: full citation, abstract, references, citings, index terms

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides IP service, Tarzan is general-purpose and transparent to applications. Organized as a decentralized peer-to-peer overlay, Tarzan is fault-tolerant, highly scalable, and easy to manage. Tarzan achieves its anonymity with layered encryption and multi-hop routing, much like a Chaumian mix. A message initiator chooses a path of peers pseudo-randomly through a restricted topology in a way that adversaries cannot easily influenc ...

Keywords: IP tunnels, anonymity, cover traffic, distributed trust, mix-nets, overlay networks, peer-to-peer

Results 1 - 20 of 200

Result page: **1** <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u>

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc. Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat Q QuickTime Windows Media Player Real Player

IEEE HOME I SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Standards Conferences Careers/Jobs Publications/Services Welcome **United States Patent and Trademark Office** Quick Links F FAQ Terms IEEE Peer Review Welcome to IEEE Xplore® O- Home Your search matched 153 of 1114111 documents. — What Can A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance** I Access? **Descending** order. O- Log-out **Refine This Search: Tables of Contents** You may refine your search by editing the current search expression or entering new one in the text box. O- Journals & Magazines Search domain name service<or>dns O- Conference Check to search within this result set **Proceedings** O- Standards **Results Key:** JNL = Journal or Magazine CNF = Conference STD = Standard Search O- By Author O- Basic 1 Protecting BGP routes to top-level DNS servers Lan Wang; Xiaoliang Zhao; Dan Pei; Bush, R.; Massey, D.; Lixia Zhang; — Advanced Parallel and Distributed Systems, IEEE Transactions on , Volume: 14 , Issue: CrossRef 9 , Sept. 2003 Pages:851 - 860 Member Services O- Join IEEE [PDF Full-Text (1637 KB)] [Abstract] **IEEE JNL**)- Establish IEEE 2 The autoconfiguration of recursive DNS server and the optimization Web Account DNS name resolution in hierarchical mobile IPv6 ()- Access the Jaehoon Jeong; Kyeongjin Lee; Park, J.; Heecheol Lee; Hyoungjun Kim; **IEEE Member** Digital Library Vehicular Technology Conference, 2003. VTC 2003-Fall. 2003 IEEE 58th, Vol. 5, 6-9 Oct. 2003 **IEEE Enterprise** Pages:3439 - 3442 Vol.5 — Access the [PDF Full-Text (238 KB)] **IEEE Enterprise** [Abstract] **IEEE CNF** File Cabinet 3 Protecting BGP routes to top level DNS servers Lan Wang; Xiaoliang Zhao; Dan Pei; Bush, R.; Massey, D.; Mankin, A.; Wu, S. Print Format Lixia Zhang; Distributed Computing Systems, 2003. Proceedings. 23rd International Confer on , 19-22 May 2003 Pages: 322 - 331

[Abstract] [PDF Full-Text (343 KB)] **IEEE CNF**

4 A formal-specification based approach for protecting the domain nat system

Cheung, S.; Levitt, K.N.;

Dependable Systems and Networks, 2000. DSN 2000. Proceedings Internation

Conference on , 25-28 June 2000 Pages:641 - 651

[Abstract] [PDF Full-Text (384 KB)] IEEE CNF

5 Name service in IPv6 mobile ad-hoc network connected to the Inter

Jaehoon Jeong; Jungsoo Park; Hyoungjun Kim;

Personal, Indoor and Mobile Radio Communications, 2003. PIMRC 2003. 14th Proceedings on , Volume: 2 , 7-10 Sept. 2003

Pages:1351 - 1355 vol.2

[Abstract] [PDF Full-Text (429 KB)] **IEEE CNF**

6 DNS transport size issues in IPv6 environment

Rikitake, K.; Nogawa, H.; Tanaka, T.; Nakao, K.; Shimojo, S.; Applications and the Internet Workshops, 2004. SAINT 2004 Workshops. 2004 International Symposium on , 26-30 Jan. 2004 Pages:141 - 145

[Abstract] [PDF Full-Text (256 KB)] IEEE CNF

7 Public key validation for the DNS security extensions

Massey, D.; Lewis, E.; Gudmundsson, O.; Mundy, R.; Mankin, A.; DARPA Information Survivability Conference & Exposition II, 2001. DISCEX '0 Proceedings, Volume: 1, 12-14 June 2001

Pages: 227 - 238 vol.1

[Abstract] [PDF Full-Text (1004 KB)] IEEE CNF

8 On the effectiveness of DNS-based server selection

Shaikh, A.; Tewari, R.; Agrawal, M.;

INFOCOM 2001. Twentieth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE, Volume: 3, 22-26 April 2001 Pages:1801 - 1810 vol.3

[Abstract] [PDF Full-Text (156 KB)] IEEE CNF

9 Enabling secure on-line DNS dynamic update

Xunhua Wang; Yih Huang; Desmedt, Y.; Rine, D.;

Computer Security Applications, 2000. ACSAC '00. 16th Annual Conference, : Dec. 2000

Pages: 52 - 58

[Abstract] [PDF Full-Text (524 KB)] IEEE CNF

10 DNS-based Internet client clustering and characterization

Bestavros, A.; Mehrotra, S.;

Workload Characterization, 2001. WWC-4. 2001 IEEE International Workshop on, 2 Dec. 2001

Pages: 159 - 168

[Abstract] [PDF Full-Text (1002 KB)] IEEE CNF

11 DNS performance and the effectiveness f caching

Jaeyeon Jung; Sit, E.; Balakrishnan, H.; Morris, R.;

Networking, IEEE/ACM Transactions on , Volume: 10 , Issue: 5 , Oct. 2002

Pages: 589 - 603

[Abstract] [PDF Full-Text (447 KB)] **IEEE JNL**

12 Spectroscopy of private DNS update sources

Broido, A.; Nemeth, E.; kc claffy;

Internet Applications. WIAPP 2003. Proceedings. The Third IEEE Workshop on 24 June 2003

Pages:19 - 29

[Abstract] [PDF Full-Text (4577 KB)] **IEEE CNF**

13 Dynamic DNS for load balancing

Chi-Chung Cheung; Man-Ching Yuen; Yip, A.C.H.;

Distributed Computing Systems Workshops, 2003. Proceedings. 23rd Internat

Conference on , 19-22 May 2003

Pages:962 - 965

[Abstract] [PDF Full-Text (251 KB)]

14 Supporting global replicated services by a routing-metric-aware DN

Tang, W.; Du, F.; Mutka, M.W.; Ni, L.M.; Esfahanian, A.-H.;

Advanced Issues of E-Commerce and Web-Based Information Systems, 2000.

WECWIS 2000. Second International Workshop on , 8-9 June 2000

Pages:67 - 74

[PDF Full-Text (288 KB)] [Abstract] IEEE CNF

15 A proposal of DNS-based adaptive load balancing method for mirro server systems and its implementation

Yokota, H.; Kimura, S.; Ebihara, Y.;

Advanced Information Networking and Applications, 2004. AINA 2004. 18th

International Conference on , Volume: 2 , 29-31 March 2004

Pages: 208 - 213 Vol. 2

[Abstract] [PDF Full-Text (291 KB)] IEEE CNF

1 2 3 4 5 6 7 8 9 10 11 Next

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account |
New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting | No Robots Please | Release Notes | IEEE Online Publications | Help | FAQ| Terms | Back to Top

Copyright © 2004 IEEE - All rights reserved

IEEE HOME I SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

Welcome **United States Patent and Trademark Office**

	2	3 2	XPIOCE RELEASE 1.8	
Help	FAQ	<u>Terms</u>	IEEE Peer Review	Quid

Quick Links

Welco	me to IE	EE Xplore®

O- Home

- What Can I Access?

O- Log-out

Tables of Contents

— Journals & Magazines

)- Conference **Proceedings**

O- Standards

Search

By Author

O- Basic

— Advanced

O- CrossRef

Member Services

→ Join IEEE

)- Establish IEEE Web Account

()- Access the **IEEE Member** Digital Library

IEEE Enterprise

O- Access the **IEEE Enterprise** File Cabinet

Print Format

Your search matched 4 of 1114111 documents.

A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance** Descending order.

Refine This Search:

You may refine your search by editing the current search expression or enterior new one in the text box.

(domain name service<or>dns)<and>peer to peer



☐ Check to search within this result set

Results Key:

JNL = Journal or Magazine CNF = Conference STD = Standard

1 FPN: a distributed hash table for commercial applications

Dubnicki, C.; Ungureanu, C.; Kilian, W.;

High performance Distributed Computing, 2004. Proceedings. 13th IEEE International Symposium on , 4-6 June 2004

Pages:120 - 128

[PDF Full-Text (635 KB)] [Abstract]

2 Rhubarb: a tool for developing scalable and secure peer-to-peer applications

Wierzbicki, A.; Strzelecki, R.; Swierezewski, D.; Znojek, M.; Peer-to-Peer Computing, 2002. (P2P 2002). Proceedings. Second Internationa Conference on , 5-7 Sept. 2002

Pages: 144 - 151

[PDF Full-Text (435 KB)] [Abstract] IEEE CNF

3 Efficient, self-contained handling of identity in peer-to-peer systems

Aberer, K.; Datta, A.; Hauswirth, M.;

Knowledge and Data Engineering, IEEE Transactions on , Volume: 16 , Issue: 7, July 2004

Pages:858 - 869

[Abstract] [PDF Full-Text (784 KB)] **IEEE JNL**

4 Technologies for sharing and collaborating on the Net Barkai, D.:

Peer-to-Peer Computing, 2001. Proceedings. First International Conference on, 27-29 Aug. 2001

Pages:13 - 28

[Abstract] [PDF Full-Text (1292 KB)]

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account |
New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting | No Robots Please | Release Notes | IEEE Online
Publications | Help | FAQ| Terms | Back to Top

Copyright © 2004 IEEE --- All rights reserved

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	49	("6614809" "5802053" "6601093" "5802305" "6286047" "6470022" "6212565" "6212565" "6614774" "6199164" "6430595" "5546379" "5631897" "5678004" "6532241" "6802068" "6446092" "6463061" "6115751" "6181681" "6118785" "6262984" "6396842" "6147971" "6614803" "5831975" "5485455" "5491694" "5521910" "5790546" "5898780" "6031978" "6185598" "6247055" "6334154" "6442571" "6826198" "6069896" "5604882" "5924094" "6178512" "6233686" "6208623" "6339595" "6526056" "6532237" "6614757" "6473408" "6512768" "5469575").pn.	USPAT	OR	OFF	2005/01/05 10:14
S2	49	("5553240" "5938733" "6144671" "6330615" "6330616" "6463064" "6681258" "6067551" "6535507" "6108649" "5764155" "5991300" "6192397" "5231634" "5517617" "5917820" "6175569" "5854454" "5907553" "5917629" "6285659" "6392990" "6771673" "5742833" "5898679" "5892903" "6337863" "6661799" "6680942" "5699359" "6195688" "5557659" "5717742" "6757733" "6041343" "5802313" "5922074" "6249873" "5903559" "5968133" "5774461" "6490618" "5737526" "6128279" "6061734" "6061734" "6112245" "6463471" "6651105" "6002930").pn.	USPAT	OR	OFF	2005/01/05 10:15
S3	98	S1 or S2	USPAT	OR	OFF	2005/01/05 10:15
S4	1332	709/245.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:53
S5	36613	(address\$3, id, identification) same (resolution, lookup)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:54
S6	364	S5 and S4	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:54
S7	246	S6 and @ad<"20011113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:54

S8	20549	(address\$3, id, identification) with (resolution, lookup)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:55
S9	332	S8 and S4	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:55
S10	225	S9 and @ad<"20011113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:55
S11	13682	(address\$3, id, identification)near5 (resolution, lookup)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:55
S12	299	S11 and S4	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:55
S13	202	S12 and @ad<"20011113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:55
S14	1375	domain near2 name near2 service	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:56
S15	7266	S14 or dns	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:56
S16	75	S15 and S13	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:57
S17	22139	intel.as.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 09:57
S18	20	S17 and S4	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 10:12
S19	1117	S15 and peer	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 10:12

520	560	S15 and peer-to-peer	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 10:12
S21	255	S20 and @ad<"20011113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 10:12
S22	14	S21 and S4	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 10:53
S25	0	370/3.53.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:15
S26	O	370/3.54.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:17
S27	83	340/3.54.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:17
S28	24	340/3.53.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:18
S29 ·	313	370/399.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:18
S30	162	370/395.3.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:18
S31	304	370/409.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:19
S32-	846	S27 or S28 or S29 or S30 or S31	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:19
S33	1375	domain near2 name near2 service	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:19

		<u> </u>				
S34	7266	S33 or dns	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF ·	2005/01/14 12:19
S35	16	S34 and S32	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:33
S36	7166	address with resolution	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:34
S37	54	S36 and S32	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:34
S38	50	S37 and @ad<"20011113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:49
S39	7746	peer-to-peer	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:49
S40	301	S36 and S39	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:49
S41	1332	709/245.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:49
S42	20	S40 and S41	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:49
S43	14	S42 and @ad<"20011113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:54
S44	2	S40 and S32	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/14 12:54
S45	1335	709/245.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:10

S46	83	340/3.54.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:10
S47	24	340/3.53.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:10
S48	313	370/399.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:10
S49	162	370/395.3.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:10
S50	304	370/409.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:10
S51	846	S46 or S47 or S48 or S49 or S50	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:10
S52	2162	S51 or S45	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:11
S53	82	name-to-address	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:11
S54	19	S53 near5 resolution	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:11
S55	2	S54 and S52	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:11
S56	56	S53 and @ad<"20011113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:39
S57	2	"6081845".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:39

S58	2	<u>"</u> 6205481".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 10:40
S59	14	("5987376", "6654796", "6683865", "6269099", "6636854", "6532217", "5933849").pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:02
S60	1379	domain near2 name near2 service	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:02
S61	7290	S60 or dns	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:02
S62	7290	S61	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:02
S63	7789	peer-to-peer	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:02
S64	19392	access near5 authoriz\$6	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:03
S65	1041037	permit, permission\$1	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:03
S66	487469	sharing, swapping, transferring	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:04
S67	1431852	S64 or S65 or S66	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:04
S68	7250	network\$3 and S63	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:04
S69	4598	S67 and S68	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:04

S70	2267	S69 and @ad<"20011113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:05	
S71	216	S70 and S62	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/01/18 15:05	